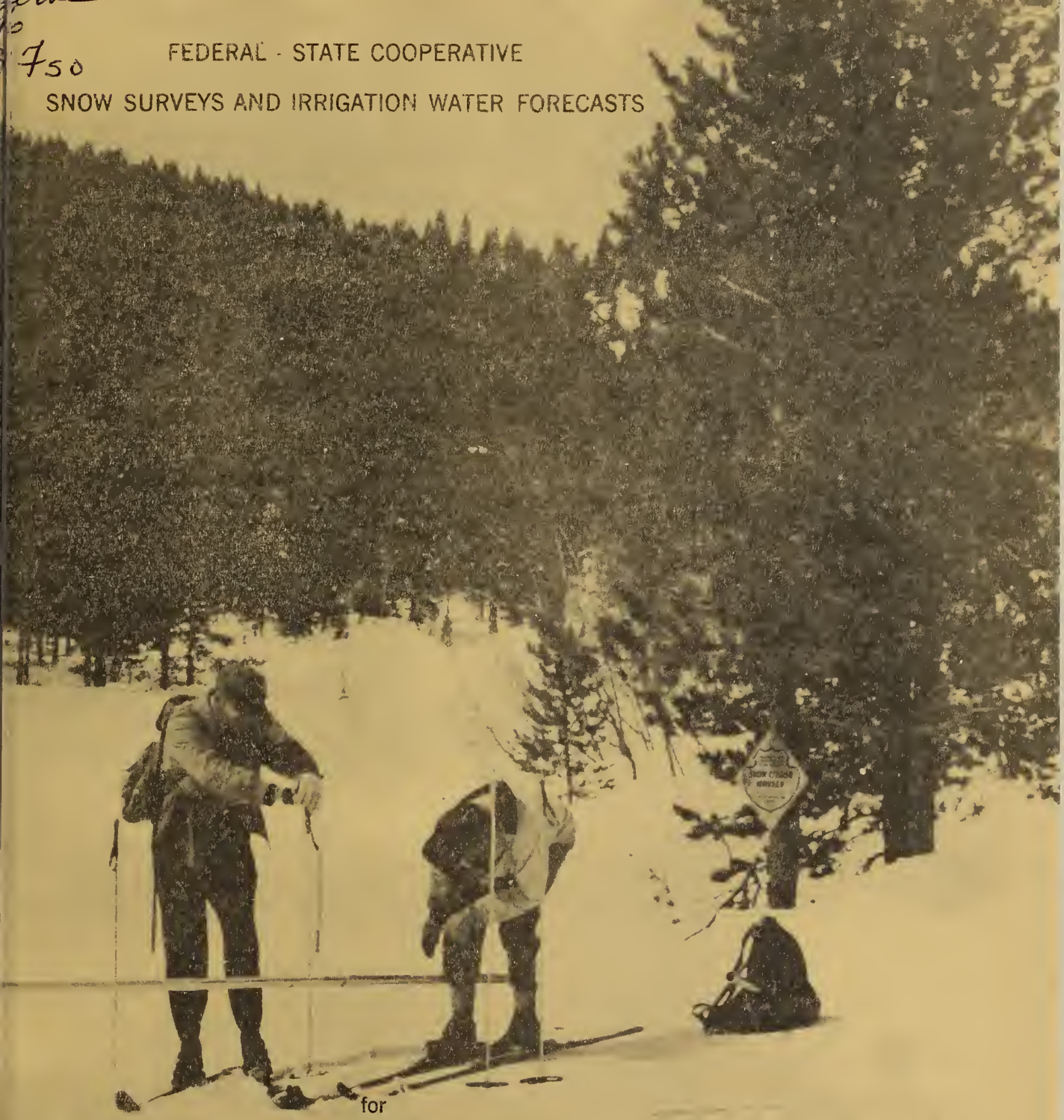
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FEDERAL - STATE COOPERATIVE

SNOW SURVEYS AND IRRIGATION WATER FORECASTS



for

Oregon

By

Division of Irrigation, Soil Conservation Service
United States Department of Agriculture
and
Oregon Agricultural Experiment Station

U. S. DEPARTMENT OF AGRICULTURE

Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations.

As of
MAR. 1, 1953

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in this bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

FEDERAL-STATE COOPERATIVE

SNOW SURVEYS AND WATER FORECASTS

FOR

OREGON

Report Prepared
by

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and
Manes Barton, Assistant Water Forecaster

Issued

March 9, 1953

Division of Irrigation Engineering
Soil Conservation Service
and
Oregon Agricultural Experiment Station
P O. Box 1149
Medford, Oregon

INDEX TO SNOW COURSES

Number	Name	Elev.
	UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)	
	OWYHEE RIVER	
Nev. 6	Big Bend	8700
Nev. 7	Fry Canyon	6700
Nev. 5	Gold Creek	6600
Nev. 9	Jack Creek, Lower	6800
Nev. 10	Jack Creek, Upper	7250
Nev. 6	Rodeo Flat	6600
Ida. 12	Silver City	8400
Ida. 13	South Mountain No. 2	6340
Nev. 12	Taylor Canyon	6200
	(The following courses are adjacent to but not on Owyhee Drainage and partially reflect snow conditions on this watershed.)	
Nev. 1	Bear Creek	7600
Nev. 1	Buckskin, Lower	6700
Nev. 2	Buckskin, Upper	7200
Nev. 2	Fox Creek	8800
Nev. 4	Granite Peak	7800
Nev. 3	Martin Creek	6700
Nev. 6	Midas	7200
Nev. 11	Tremewan Ranch	5700
Nev. 4	78 Creek	7100
	MALHEUR RIVER	
133	Blue Mountain Spring	5900
137	Crane Prairie	5375
136	Lake Creek	5120
134	Rock Spring	5100
135	Stinking Water	4800
	BURNT RIVER	
143	Barney Creek	5950
141	Blue Mountain Summit	5096
142	Tipton	5100
	POWDER RIVER	
155	Anthony Lake	7125
154	Bourne	5800
156	Dooley Mountain	5430
151B	Eilertson Meadows	5400
157	Goodrich Lake	6775
	PINE CREEK	
161	Schneider Meadows	5400
	IMNAHA RIVER	
171	Coverdale	4250
	GRANDE RONDE RIVER	
163	Aneroid Lake No. 1	7480
163A	Aneroid Lake No. 2	7000
166	Beaver Reservoir	5340
167	Camp Carson	5970
166A	Moss Spring	5650
184	Summit Springs	6000
186	Taylor Green	5740

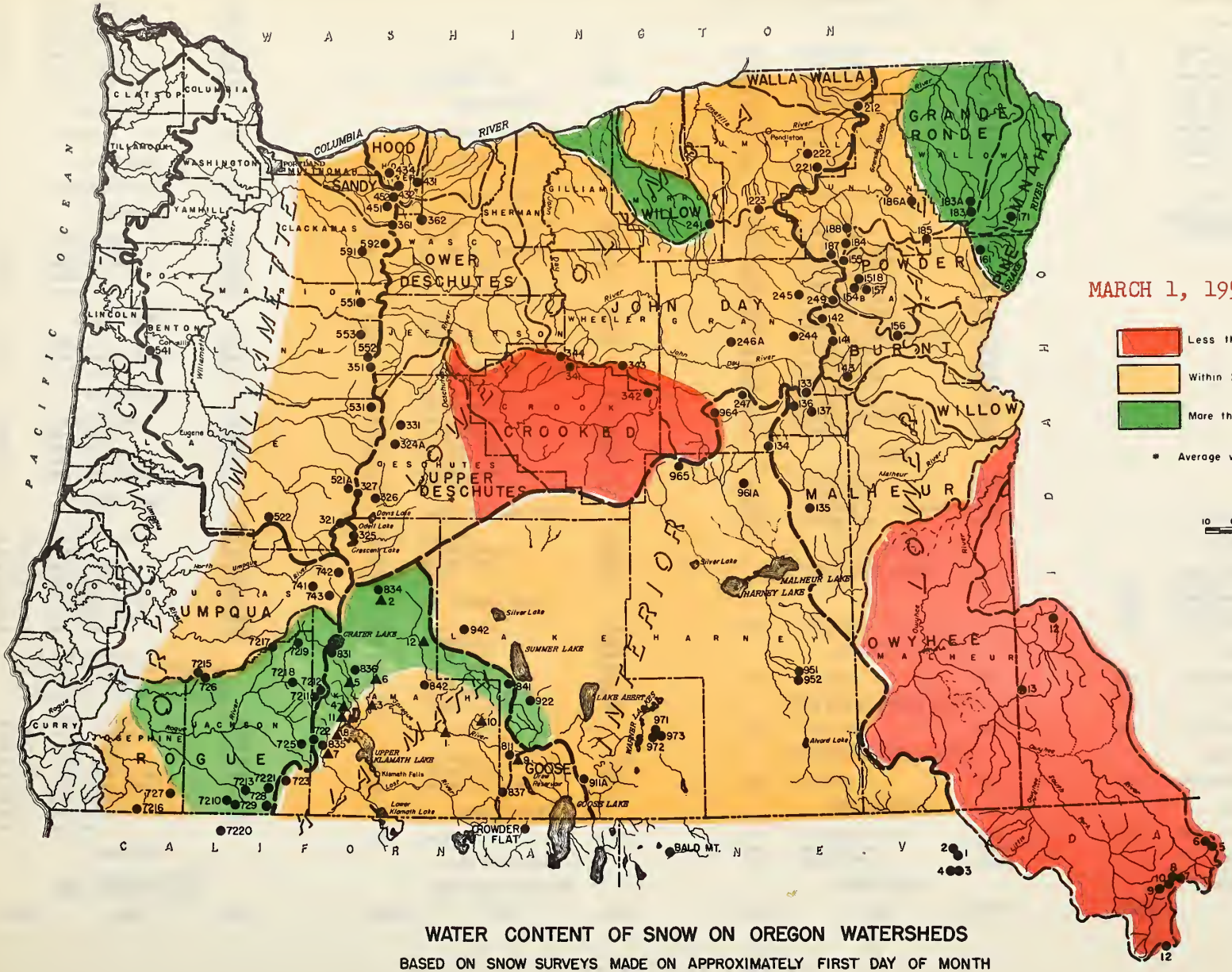
Number	Name	Elev.
	LOWER COLUMBIA DRAINAGE	
	WALLA WALLA RIVER	
212	Tollgate	5070
	UMATILLA RIVER	
222	Emigrant Springs	3925
223	Lucky Strike	5050
221	Meacham	4300
	JOHN DAY RIVER	
241	Arbuckle Mountain	5400
248A	Beech Creek Summit	4800
244	Dixie Springs	6850
249	Gold Center	5340
245	Olive Lake	6000
248	Schoolmarm	4775
247B	Starr Ridge	5156
	CROOKED RIVER	
343	Derr	5670
344	Marks Creek	4540
341	Ochoco Meadows	5200
342	Tamarack	4800
	UPPER DESCHUTES RIVER	
326	Caldwell Ranch	4400
321	Cascade Summit	4860
327	Charlton Lake	5750
325	Crescent Lake	4760
329	Irish-Taylor	5500
324A	New Dutchman Flat	6400
331	Three Creeks Meadows	5600
323	Willamette Pass	5600
	LOWER DESCHUTES RIVER	
361	Clear Lake	3500
351	Hogg Pass	4755
352	Rock Creek	4200
	HOOD RIVER	
431	Brooks Meadows	4300
433	Greenpoint Reservoir	3400
434	Red Hill	4400
432	Tilly Jane - Mt. Hood	8000
	SANDY RIVER	
452	Phlox Point - Mt. Hood	5600
451	Still Creek	3700
	WILLAMETTE RIVER BASIN	
	Clackamas River	
592	Clackamas Lake	3400
591	Peavine Ridge	3500

Number	Name	Elev.
	Santiam Rivers	
551	Breitenbush	2325
553	Marion Forks	2730
552	Santiam Junction	3990
	McKenzie River	
531	McKenzie	4800
	Middle Fork Willamette River	
521A	Waldo Lake	5500
	Coast Fork Willamette River	
522	Champion	4500
	Mary's River	
541	Mary's Peak	3620
	OREGON COAST DRAINAGE	
	UMPQUA RIVER	
743	Diamond Lake	5315
742	N. Umpqua nr. Lake Creek	4215
741	Trap Creek	3800
744	Windigo Pass	5600
	ROGUE RIVER	
7216	Althouse	4400
729	Big Red Mountain	8500
722	Billie Creek Divide	5300
725	Fish Lake	4885
722S	Fourmile Lake	6000
727	Greyback Peak	6000
7221	Hobart Lake	5010
723	Hyatt Prairie Reservoir	4900
7210	Little Red Mountain	6500
7220	Seragg Mountain	6200
7211	Seven Lakes No. 1	8800
7212	Seven Lakes No. 2	6200
7219	Silver Burn	5720
726	Siskiyou Summit	4630
7216	South Fork Canal	3500
7215	Wagner Butte	6900
7217	Whaleback	5140
	KLAMATH LAKE BASIN	
631	Annie Spring	6018
634	Chemult	4760
Calif.	Crowder Flat	5200
639	Gerber	4850
635	Lake of the Woods	4960
636	Park Headquarters	8450
637	Strawberry	5600
841	Summer Rim	7200
836	Sun Mountain	5350
642	Taylor Butte	5100
	GOOSE LAKE BASIN	
611	Quartz Mountain	5320

Number	Name	Elev.
	INTERIOR DRAINAGE	
	WARNER LAKE	
911A	Camas Creek	5720
	GUANO LAKE	
Nev. 1	Bald Mountain	6720
	CHEWAUCAN RIVER	
922	Mill Creek	6200
	SILVER LAKE	
942	Silver Creek	4900
	HARNEY BASIN	
952	Fish Creek	7900
951A	Idlewild Camp	5200
964	Izee Summit	5295
951	Silvies	6900
965	Snow Mountain	6300
	McDERMITT CREEK	
Nev. 6	Disaster Peak	5500

THE CALIFORNIA OREGON POWER COMPANY SNOW STATIONS

	KLAMATH LAKE BASIN	
1	Beatty (COPCO)	4400±
2	Chemult (COPCO)	4761
3	Chiloquin (COPCO)	4167
4	Crystal (COPCO)	4200
5	Fort Klamath (COPCO)	4150
6	Kirk (COPCO)	4533
7	Lake of the Woods (COPCO)	4980
8	Harriman Lodge (COPCO)	4200
10	Bly 101 Ranch (COPCO)	4800±
12	Yamsey (COPCO)	4600
	GOOSE LAKE BASIN	
9	Quartz Mountain (COPCO)	5500



WATER CONTENT OF SNOW ON OREGON WATERSHEDS

BASED ON SNOW SURVEYS MADE ON APPROXIMATELY FIRST DAY OF MONTH

(Valley Lands Not Necessarily Included)

UNITED STATES DEPARTMENT OF AGRICULTURE — REGION 7 — SOIL CONSERVATION SERVICE

7-L-8563

PRELIMINARY WATER SUPPLY OUTLOOK FOR OREGON

March 1, 1953

Oregon's 1953 water supply outlook, dependent on mountain snow-cover, is "fair" to "good" with water content of present snow-cover 99 percent normal on 100 measured snow courses. Preliminary forecasts of streamflow indicate normal to above normal water supplies expected in the State with the exception of the Owyhee, White and Hood Rivers and streams with headwaters in the Ochoco and Blue Mountains where below normal water supplies are expected. Reservoir water supply is 128 percent normal state-wide and "good" to "excellent" in most areas where below normal water supplies are expected.

Water content of mountain snow-cover as of March 1 averages 99 percent normal state-wide on 100 measured snow courses but only 66 percent of last year at this date. Water content of snow above 5000 feet averages 106 percent normal and 70 percent of last year. Water content of snow below 5000 feet averages 83 percent normal and 56 percent of last year.

Preliminary streamflow forecasts presented on pages 2-4 of this report indicate normal to above normal water supplies expected in the State with the exception of the Owyhee, White and Hood Rivers and streams with headwaters in the Ochoco and Blue Mountains where below normal water supplies are expected.

Moisture of the watershed soils under the snow, which were generally very dry due to below normal fall precipitation, appears to have been moderately replenished by winter rainfall on the snow cover. Greater than normal amounts of early snow-melt water will be required to "prime" the watershed soils before satisfactory streamflow is attained next spring.

Total water stored in 21 reported reservoirs is 37 percent greater than last year, 5 percent greater than 1951 and 28 percent greater than average. Of the 21 reporting reservoirs, 11 are three-quarters full or better and all but two (Antelope and Unity) are one-half full or better.

State-wide precipitation during February was 118 percent average.

PRELIMINARY OREGON STREAMFLOW FORECASTS - MARCH 1, 1953

The following summarized runoff forecasts are based on present mountain snow cover and on the assumption that average March increase of snow cover will occur. Greater or less than average increase in mountain snow cover during the month will correspondingly modify these estimates:

	Seasonal Streamflow in Thousand A.F.					
	Forecast 1953		%	Measured Runoff*		10 Yr.
	Apr-Sept	Other Period	10-Yr Avg.	1951	1950	Avg. 1941-50
NORTHCENTRAL OREGON						
Hood R., nr. Hood River[1]	230.0		72	358.8	497.6	318.8
Hood R., W. Fk , nr. Dee	110.0		71	156.4	228.6	155.3
White R., below Tygh Valley	130.0		84	202.6	233.1	155.0
UMATILLA-WALLA WALLA						
Walla Walla R., So. Fk., nr. Milton	55.0		76	73.5	88.3	72.2
Umatilla R., nr. Gibbon	55.0		59	77.2	110.1	92.9
Umatilla R., at Pendleton	110.0		60	c	213.0	182.5
McKay Cr., nr. Pilot Rock	20.0		63	c	39.9	31.9
NORTHEASTERN OREGON						
Grande Ronde R. at LaGrande	130.0		65	165.1	235.8	199.2
Catherine Cr., nr Union	82.0		114	62.7	67.1	71.8
Bear Cr., nr. Wallowa	87.0		119	56.5	75.5	73.2
Lostine R., nr. Lostine	150.0		117	110.0	137.7	127.8
Hurricane Cr., nr. Joseph	52.0		113	41.0	42.8	46.2
Wallowa R., E. Fk., nr. Joseph[2]	12.8		110	9.8	10.8	11.6
Imnaha R., at Imnaha	370.0		122	267.5	287.7	303.0
Powder R., at Salisbury	55.0		86	69.8	66.1	64.3
Burnt R., nr. Hereford[3]	25.0		57	54.8	49.7	43.6
EASTERN OREGON						
Malheur R., nr. Drewsey	65.0		85	72.3	63.3	75.9
Malheur R., N. Fk. at Beulah[4]	55.0		89	54.4	63.6	62.2
Owyhee Res., net inflow[5]		360.0[a]	73[a]	549.7[a]	397.3[a]	489.8[a]
John Day R.at Prairie City[6]	47.0		89	44.3	43.1	52.9

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1952 records not available at this time.

[1] Observed flow plus P.P.&L.Co.power canal.

[2] Includes power plant tailrace.

[3] Observed flow plus change in storage in Unity Reservoir.

[4] Observed flow plus change in storage in Agency Valley Reservoir.

[5] From U.S.B.R. records of inflow.

[6] Observed flow plus Prairie Power Canal.

[a] March-July.

[c] Records not available.

Streamflow Forecasts - March 1, 1953 (Cont'd)

	Seasonal Streamflow in Thousand A.F.					
	Forecast 1953		%	Measured Runoff*		10-Yr.
	Apr-Sept.	Other Period	10-Yr. Avg.	1951	1950	Avg. 1941-50
EASTERN OREGON (Cont'd)						
John Day R., Mid. Fk., at Ritter	112.0		88	115.4	125.8	127.4
John Day R., N. Fk., nr. Dale	230.0		88	255.8	267.7	261.1
Strawberry Cr., nr. Prairie City	7.0		83	7.9	7.1	8.4
HARNEY BASIN						
Silvies River, nr. Burns	60.0		61	116.4	83.8	97.7
CENTRAL OREGON						
Ochoco Res., net inflow[7]	20.0		67	c	32.8	29.9
Crescent Cr. at Crescent Lake[8]	22.4		118	c	35.0	19.0
Little Deschutes R., nr. Lapine[8]	80.0		94	c	137.1	85.0
Odell Cr., nr. Crescent	32.4		112	36.0	40.3	29.0
Tumalo Cr., nr. Bend[9]	51.0		106	c	60.4	48.0
Squaw Cr., nr. Sisters	54.0		112	c	60.5	48.5
SOUTHCENTRAL OREGON						
Deep Cr., above Adel		65.0[b]	102[b]	71.9[b]	70.3[b]	63.9[b]
Chewaucan R., nr. Paisley		68.0[b]	106[b]	88.4[b]	67.2[b]	64.4[b]
KLAMATH LAKE BASIN						
Upper Klamath Lake, net inflow[10]	650.0		140	c	423.9	452.9
SOUTHERN OREGON						
Hyatt Res., net inflow[11]	6.0		103	c	6.3	5.8
Fourmile Lake, net inflow[12]	6.8		84	c	8.6	8.1
Little Butte Cr., N. Fk., below Fish Lake[13]	14.0		98	c	17.9	14.3

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1952 records not available at this time.

[7]Observes flow of Ochoco Cr., + Canal + changes in storage of Ochoco Res.

[8]Observed flow plus changes in storage of Crescent Lake Reservoir.

[9]Observed flow plus Columbia Southern Canal.

[10]From COPCO records of inflow.

[11]Observed flow of Keene Cr. Canal below Hyatt Lake + storage change + 1600 a.f. for estimated evaporation during April-September period.

[12]Observed outflow into Cascade Canal + storage changes +1600 a.f. for estimated evaporation during April-September period.

[13]Observed flow plus changes in storage in Fish Lake Res., + 90% of Cascade Canal inflow.

[b]April-June.

[c]Records not available.

Streamflow Forecasts - March 1, 1953 (Cont'd)

	Seasonal Streamflow in Thousand A.F.					
	Forecast 1953		%	Measured Runoff		*10-Yr.
	Apr-Sept.	Other Period	10-Yr. Avg.	1951	1950	Avg. 1941-50
SOUTHERN OREGON (Cont'd)						
Rogue River, above Prospect	360.0		118	345.5	380.5	305.1
Clearwater R., abv. Trap Cr.	63.0		102	c	71.1	62.0
No. Umpqua R. below Lake Cr.	165.0		103	c	189.0	160.5
No. Umpqua R., at Toketee Falls[14]	400.0		107	c	472.1	373.4
WILLAMETTE VALLEY						
Willamette R., Mid. Fk., at Lowell	910.0		106	c	c	855.0
McKenzie R., at McKenzie Bridge	570.0		101	c	771.8	562.5
McKenzie R., Nr. Vida	1215.0		100	c	725.2	214.0

*Discharge data from preliminary records of U. S. Geological Survey and Oregon State Engineer. 1952 records not available at this time.

[14] Sum of observed flow at North Umpqua River above Clearwater River (#7424) and Clearwater River at Mouth (#7423).

cRecords not available.



IMPORTANT OREGON RESERVOIRS

RESERVOIR NAME	NUMBER
Agency Valley	1354
Antelope	1230
Clear Lake	823
Clear Lake	36R1
Cold Springs	22R1
Cottage Grove	5220
Cottonwood	8115
Crane Prairie	3220
Crescent Lake	322
Detroit	5539
Dorena	5223
Drew Creek	814
Emigrant Gap	7267
Fern Ridge	5413
Fish Lake	7237
Four Mile Lake	8321
Gerber	8215
Hyatt Prairie	8320
McKay	2231
Ochoco	3420
Owyhee	1234
Rock Creek	36R3
Thief Valley	1514
Thompson Valley	9411
Unity	1415
Upper Klamath Lake	832
Wallowa Lake	186
Warm Springs	1322
Wickiup	3137
Willow Creek No. 3	1323



AGR-SCS-PORTLAND, ORE., FEB. 1952

7-1-3060

STATUS OF OREGON RESERVOIR STORAGE - MARCH 1, 1953

BASIN and STREAM	RESERVOIR	USABLE CAPACITY (Thousand Acre Feet)	THOUSAND ACRE FEET IN STORAGE ABOUT MARCH 1 FIRST				
			1953	1952	1951	1950	10-yr.Avg. 1941-50
		UPPER COLUMBIA DRAINAGE					
		Lower Snake in Oregon					
Owyhee	Antelope	36.5	13.3	N.R.	22.0	9.0	8.9
	Owyhee	715.0	546.9	479.5	652.6	429.8	497.5
Malheur	Warm Springs	191.0	144.1	31.8	55.0	17.8	94.5
	Agency Valley	60.0	34.7	20.5	21.6	22.4	40.8
Burnt	Unity	25.2	8.7	5.9	12.2	3.2	9.3
Powder	Thief Valley	17.4	N.R.	N.R.	N.R.	N.R.	15.7
Grande Ronde	Wallowa Lake	40.9	27.8	11.4	18.2	12.2	20.3
		LOWER COLUMBIA DRAINAGE					
Umatilla	McKay	74.0	40.8	31.3	62.6	45.7	49.2
	Cold Springs	50.0	33.0	42.2	46.6	35.6	40.0
Deschutes	Ochoco	46.0	39.5	30.7[f]	43.4	6.3	21.1
	Crescent Lake	54.9	53.0	48.8	--	52.8	40.1
	Crane Prairie	55.3	48.6	47.0[g]	54.6	40.0	35.3
	Wickiup	180.0	180.5	186.3	186.0	186.9	87.8
Willamette	Cottage Grove	30.1[a]	9.3	9.5	9.0	9.2	6.8[d]
	Dorena	70.5[a]	16.6	16.5	17.0	26.9	--
	Fern Ridge	94.2[a]	31.4	30.6	31.5	26.4	29.0[e]
	Detroit	340.0[a]	61.8				
		WEST COAST DRAINAGE					
Rogue	Fish Lake	7.8	6.8	5.3	5.8	4.7	4.4
	Fourmile Lake[b]	16.1	11.9	6.3	12.0	7.3	5.7
	Emigrant Gap	8.3	8.3	6.7	6.6	6.6	6.4
	Hyatt Prairie[b]	16.1	12.0	4.2	5.8	4.1	5.0
Klamath	Upper Klamath Lk.	584.0[c]	482.0	381.8[f]	481.2	343.6	359 3
	Gerber	94.0	64.4	30.7	42.6	26.5	33.5
	Clear Lake	440.2	267.6	89.2	124.5	122.2	222.2
Goose Lake	Cottonwood	4.1	0.6	0.0	1.3	0.8	0.4
	Drew	62.5	46.3	39.5[f]	60.0	40.1	36.5

N.R.--No Report.

[a] Storage space reserved for flood control.

[b] By ditch to Rogue River side from Klamath Drainage.

[c] Based on gage zero elevation of 4135.0.

[d] 1943-1950

[e] 1942-1950

[f] Spilling to provide space for future inflow.

[g] Estimated.

COMPARISON OF SNOW COVER WITH THAT OF PREVIOUS YEARS

The following tabulation of Oregon stram basins presents the water content of the snow about March 1, 1953 as percent of the same date in 1952 and 1951 and average of record:

DRAINAGE	No. of Courses Averaged	Yrs. of Record	March 1, 1953 Water Content as percent of 1952	1951	Avg.
UPPER COLUMBIA DRAINAGE (Lower Snake in Oregon)					
Owyhee River	9-15	13-25	40	79	77
Malheur River	5	14-17	67	109	104
Burnt River	3	13-17	73	103	108
Powder River	5	13-16	83	88	108
Pine Creek	1	2	88	159	114
Imhaha River	2	9	78	119	122
Grande Ronde River	6	13-16	87	105	97
Wallowa River	2	9	78	119	122
Catherine Creek	1	14	94	124	104
Main Grande Ronde	5	13-16	86	101	95
LOWER COLUMBIA DRAINAGE					
Walla Walla River	1	14	72	100	89
Umatilla River	5	11-16	78	108	95
Willow Creek	1	11	102	132	138
John Day River	10	11-17	78	105	107
North Fork	5	11-17	89	108	112
Middle Fork	2	17	72	113	106
Main Branch	3	16-17	68	109	106
South Fork	1	17	47	72	77
Crooked River	3	10-16	43	70	78
Deschutes River	3	11-16	68	88	102
Hood River	3	11-14	75	85	100
Willamette Valley	9	11-15	64	87	95
Sandy River	3	11-14	75	85	100
Clackamas River	3	11-15	56	66	77
Santiam Rivers	3	12	63	91	97
McKenzie River	2	12	63	88	97
Middle Fork	1	14	42	118	89
Coast Fork	1	14	42	118	89

COMPARISON OF SNOW COVER - (Cont'd)

DRAINAGE	No. of Courses Averaged	Yrs. of Record	March 1, 1953 Water Content as percent of 1952	1951	Avg.
PACIFIC COASTAL STREAMS					
Umpqua River	2	14-24	55	116	117
Rogue River	7-9	11-19	59	133	119
Upper Rogue	3	15-19	68	113	129
Bear-Little Butte Cr.	4	15-18	69	147	123
Applegate River	2	11-15	53	156	119
Illinois River	2	11-13	37	166	109
Klamath Lake Basin	16-18	11-26	59	107	114
Williamson River	6	13-25	66	105	122
Sprague River	6-7	12-26	52	114	105
Gerber-Clear Lake Basin	3-4	11-21	52	120	100
Goose Lake Basin	2-3	12-21	52	118	102
INTERIOR DRAINAGE					
Warner Lake Basin	1	9	50	89	108
Silver Lake Basin	1	12	28	72	78
Chewaucan River	3	13-14	63	122	133
Harney Basin	6	14-18	55	99	92

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	SNOW COVER MEASUREMENTS: Date of Survey	Snow Depth (IN.)	Water Content (IN.): 1953	Same Approx. Date: 1952	Same Approx. Date: 1951	Past Record: Yrs. of Rcd.	Past Record: Avg. Water Cont. (In.)
UPPER COLUMBIA DRAINAGE									
LOWER SNAKE IN OREGON									
OWYHEE RIVER									
*Bear Creek	Nev.1	7800	Not Measured			24.3	18.0	21	16.5
*Granite Peak	Nev.4	7800	2/24	26.6	8.5[a]	23.0	13.9	21	10.3
Upper Jack Creek	Nev.10	7250	2/26	31.6	10.8[a]	--	9.9	16	9.8
*Midas	Nev.6	7200	3/1	0.0	0.0[a]	--	5.6	12	5.2
*Upper Buckskin	Nev.2	7200	2/27	14.1	5.1[a]	--	8.0	18	9.9
*76 Creek	Nev.4	7100	2/24	39.2	15.0[a]	--	16.5	6	12.3
*Fox Creek	Nev.2	6800	Not Measured			14.8	8.6	21	8.9
Lower Jack Creek	Nev.9	6800	2/26	9.0	3.4[a]	7.9	1.0	25	4.7
Rodeo Flat	Nev.8	6800	2/25	23.9	9.2[a]	15.1	8.8	19	10.2
Big Bend	Nev.6	6700	2/25	21.5	7.8[a]	12.2	11.1	24	9.2
Fry Canyon	Nev.7	6700	2/25	24.0	7.4[a]	16.5	7.8	19	9.4
*Lower Buckskin	Nev.1	6700	2/27	14.9	5.1[a]	--	11.3	18	8.9
*Martin Creek	Nev.3	6700	2/24	20.9	6.8[a]	21.2	9.2	21	8.5
Gold Creek	Nev.5	6600	2/25	16.6	5.5[a]	--	7.2	20	6.6
*Disaster Peak	Nev.6	6500	2/27	35.6	15.0[a]	46.7	16.7	4	20.6
Silver City	Idaho 12	6400	3/1	36.0	14.4[a]	25.7	--	7	15.2
South Mountain#2	Idaho 13	6340	2/28	24.0	8.4[a]	23.8	9.0	13	11.9
Taylor Canyon	Nev.12	6200	2/26	9.9	3.6[a]	12.0	2.4	18	5.9
*Tremewan Ranch	Nev.11	5700	2/25	0.0	0.0[a]	7.0	0.7	21	2.8
MALHEUR RIVER									
*Barney Creek	143	5950	2/27	22.8	7.1	13.1	5.6	8	8.3
Blue Mountain Springs	133	5900	2/27	47.2	17.3	22.0	16.5	17	15.2
Crane Prairie	137	5375	2/25	32.2	11.6	15.6	8.8	14	9.6
Lake Creek	136	5120	2/24	37.9	13.1	16.3	10.6	14	10.7
Rock Spring	134	5100	2/27	19.2	6.8	10.0	5.0	17	6.6
Stinking Water	135	4800	Meas. Delayed			8.7	4.0	14	4.7
BURNT RIVER									
Barney Creek	143	5950	2/27	22.8	7.1	13.1	5.6	8	8.3
Dooley Mountain	156	5430	2/26	32.4	11.1	14.4	9.6	14	9.3
*Gold Center	249	5340	2/28	41.8	13.3	17.3	13.4	13	12.3
Tipton	142	5100	3/2	34.6	10.2	14.9	--	9	10.7
Blue Mountain Summit	141	5098	3/3	27.9	8.8	13.6	9.3	17	9.1
POWDER RIVER									
Anthony Lake	155	7125	2/27	75.3	23.2	25.1	26.2	13	24.3
Goodrich Lake	157	6775	2/26	94.1	36.5	46.3	--	5	37.3
Bourne	154	5800	2/25	57.3	18.6	21.3	25.6	16	15.3

*Not located directly on this drainage area.

[a]Telegraphic

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	SNOW COVER MEASUREMENTS: Date of Survey	Snow Depth (In.)	Water Content (In.): 1953	Same Approx. Date: 1952	Same Approx. Date: 1951	Past Record: Yrs. of Rcd.	Past Record: Avg. Water Cont. (In.)
UPPER COLUMBIA DRAINAGE									
POWDER RIVER (Cont'd)									
Dooley Mountain	156	5430	2/26	32.4	11.1	14.4	9.6	14	9.3
Eilertson Meadows	151B	5400	3/1	35.3	12.6	17.0	--	14	11.5
*Gold Center	249	5340	2/28	41.8	13.3	17.3	13.4	13	12.3
PINE CREEK									
Schneider Meadows	161	5400	2/27	93.7	39.3	44.4	24.7	2	34.6
IMNAHA RIVER									
*Aneroid Lake No.1	183	7480	3/2	100.2	38.3	43.3	31.3	9	31.4
*Aneroid Lake No.2	183A	7000	3/2	76.9	30.3	34.7	26.1	9	25.0
Coverdale	171	4250	Not measured			--	--	6	11.6
GRANDE RONDE RIVER									
Aneroid Lake No.1	183	7480	3/2	100.2	38.3	43.3	31.3	9	31.4
Anthony Lake	155	7125	2/27	75.3	23.2	25.1	26.2	13	24.3
Aneroid Lake No.2	183A	7000	3/2	76.9	30.3	34.7	26.1	9	25.0
Moss Spring	186A	5850	2/28	66.1	21.8	23.2	17.6	14	21.0
Beaver Reservoir	188	5340	2/26	36.9	10.3	11.2	8.9	13	10.5
Tollgate	212	5070	2/27	62.9	22.7	31.5	22.7	14	25.6
*Lucky Strike	223	5050	3/2	51.4	14.8	13.4	12.5	14	12.1
Schoolmarm	248	4775	2/27	12.7	4.0	7.1	4.6	6	4.6
Meacham	221	4300	2/ 27	24.1	7.3	10.1	7.0	16	9.7
LOWER COLUMBIA DRAINAGE									
WALLA WALLA RIVER									
Tollgate	212	5070	2/27	62.9	22.7	31.5	22.7	14	25.6
UMATILLA RIVER									
Arbuckle Mountain	241	5400	2/28	38.6	15.5	15.2	11.7	11	11.2
Tollgate	212	5070	2/27	62.9	22.7	31.5	22.7	14	25.6
Lucky Strike	223	5050	3/2	51.4	14.8	13.4	12.5	14	12.1
Meacham	221	4300	2/27	24.1	7.3	10.1	7.0	16	9.7
Emigrant Springs	222	3925	2/27	10.2	2.5	9.8	4.3	16	7.6
WILLOW CREEK									
Arbuckle Mountain	241	5400	2/28	38.6	15.5	15.2	11.7	11	11.2

*Not located directly on this drainage area

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

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LOWER COLUMBIA DRAINAGE									
JOHN DAY RIVER									
*Anthony Lake	155	7125	2/27	75.3	23.2	25.1	26.2	13	24.3
*Snow Mountain	965	6300	Not Measured			--	--	5	10.8
Olive Lake	245	6000	2/27	56.5	19.1	25.2	15.4	17	17.1
Blue Mountain Spgs.	133	5900	2/27	47.2	17.3	22.0	16.5	17	15.2
Arbuckle Mountain	241	5400	2/28	38.6	15.5	15.2	11.7	11	11.2
Gold Center	249	5340	2/28	41.8	13.3	17.3	13.4	13	12.3
*Izee Summit	964	5293	2/26	28.7	6.5	13.8	9.0	17	8.4
Starr Ridge	247B	5156	2/26	19.1	5.1	10.8	5.3	17	6.0
Tipton	142	5100	3/2	34.6	10.2	14.9	--	9	10.7
Blue Mountain Summit	141	5098	3/3	27.9	8.8	13.6	9.3	17	9.1
*Lucky Strike	223	5050	3/2	51.4	14.8	13.4	12.5	14	12.1
Beech Creek Summit	246A	4800	2/26	20.8	7.0	10.4	5.2	16	6.5
Schoolmarm	248	4775	2/27	12.7	4.0	7.1	4.6	6	4.6
CROOKED RIVER									
*Snow Mountain	965	6300	Not Measured			--	--	5	10.8
Ochoco Meadows	341	5200	2/28	29.9	9.4	19.6	11.9	16	10.2
Tamarack	342	4800	2/27	17.1	6.2	10.2	6.7	10	6.4
Marks Creek	344	4540	3/2	6.3	1.2	9.3	5.2	15	5.0
DESCHUTES RIVER									
New Dutchman Flat	324A	6400	2/26	129.5	52.2	65.2	53.9	5	53.9
Windigo Pass	744	5800	2/24	123.6	42.8	54.3	42.9	2	48.6
Three Creeks Meadows	331	5600	2/26	49.5	19.0	31.6	23.8	6	22.3
Willamette Pass	323	5600	2/24	114.9	39.5	54.6	37.1	2	45.8
Tangent	**	5400	2/26	70.2	27.4	33.0	--	1	33.0
Cascade Summit	321	4880	2/28	73.0	26.9	45.6	34.5	8	32.0
New Crescent Lake	325A	4800	2/23	51.8	18.2	23.4	--	1	23.4
*Chemult	834	4760	3/1	41.3	17.4	21.4	14.7	16	11.3
Crescent Lake	325	4760	2/23	41.8	15.7	24.2	--	4	12.5
Hogg Pass	351	4755	2/28	102.4	38.5	56.1	44.3	12	39.8
Black Pine Springs	**	4600	2/26	10.8	3.0	9.8	--	1	9.8
Hungry Flat	**	4400	2/27	17.3	6.5	10.8	--	1	10.8
Clear Lake	361	3500	2/26	31.7	9.0	18.4	14.9	11	12.8
HOOD RIVER									
Tilly Jane--Mt. Hood	432	6000	2/22	98.6	38.4	54.4	44.2	5	50.1
Red Hill	434	4400	3/1	75.2	30.4	57.1	42.4	5	56.4
Greenpoint Reservoir	433	3400	2/26	15.6	5.8	--	12.0	4	21.8

*Not located directly on this drainage area.

**Auxiliary snow station; average of 3 to 5 samples taken at same point each survey.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	SNOW COVER MEASUREMENTS: Date of Survey	Snow Depth (In.)	Water Content (In.): 1953	Same Approx. Date: 1952	Same Approx. Date: 1951	Past Record: Yrs. of Rcd.	Past Record: Avg. Water Cont. (In.)
LOWER COLUMBIA DRAINAGE									
WILLAMETTE VALLEY STREAMS									
SANDY RIVER[1]									
Phlox Point-Mt.Hood	452	5600	3/2	128.3	57.9	66.7	61.4	14	53.3
Still Creek	451	3700	3/2	53.5	20.2	31.1	26.4	15	21.3
*Clear Lake	361	3500	2/26	31.7	9.0	18.4	14.9	11	12.8
CLACKAMAS RIVER									
*Clear Lake	361	3500	2/26	31.7	9.0	18.4	14.9	11	12.8
Peavine Ridge	591	3500	2/28	44.3	14.4	25.2	19.8	15	16.7
Clackamas Lake	592	3400	2/26	33.6	10.4	16.4	16.1	12	14.5
Big Bottom	**	2118	3/1	11.5	3.7	12.5	7.8	2	10.2
Lake Harriet	**	2045	3/1	3.0	1.0[b]	9.5	T	2	4.8
SANTIAM RIVERS									
Hogg Pass	351	4755	2/28	102.4	38.5	56.1	44.3	12	39.8
Santiam Junction	552	3990	2/28	56.2	22.4	40.9	24.7	12	23.1
Marion Forks	553	2730	2/28	35.4	13.7	21.8	12.6	12	13.8
Breitenbush	551	2325	Meas. Delayed			10.2	4.3	10	4.8
Whitewater Bridge	**	2175	2/28	7.0	2.0	10.5	4.8	3	12.2
Detroit (new town)	**	1500+	2/28	0.0	0.0	4.3	T	2	2.2
Detroit Dam	**	1580	2/28	0.0	0.0	0.0	0.0	3	1.3
Mill City	**	826	2/28	0.0	0.0	0.0	0.0	2	0.0
Snow Line:									
McKENZIE RIVER									
McKenzie	531	4800	3/2	95.8	39.2	55.9	--	3	58.0
Hogg Pass	351	4755	2/28	102.4	38.5	56.1	44.3	12	39.8
Santiam Junction	552	3990	2/28	56.2	22.4	40.9	24.7	12	23.1
Dead Horse Grade	**	3800	3/2	47.3	16.2	29.0[a]	--	2	33.5
White Branch Slide	**	2800	3/2	12.3	3.8	13.0[a]	--	2	13.0
Lost Creek Ranch	**	1956	3/2	0.0	0.0	--	--	0	--
McKenzie Bridge	**	1372	3/2	0.0	0.0	5.5[a]	--	2	4.9
Vidae	**	800	3/2	0.0	0.0	--	--	0	--
Snow Line:									

*Not located directly on this drainage area.

**Auxiliary snow station; average of 3 to 5 samples taken at same point each survey.

[1]Not strictly a part of the Willamette Drainage; these surveys are indicative of west slope conditions.

[a]Telegraphic.

[b]Estimated.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	Date of Survey	Snow Depth (In.)	Water Content (In.) 1953	Same Approx. Date 1952	Same Approx. Date 1951	Past Record Yrs. of Rcd.	Past Record Avg. Water Cont. (In.)
				SNOW COVER MEASUREMENTS					
WILLAMETTE VALLEY STREAMS (Cont'd)									
MIDDLE FORK WILLAMETTE RIVER									
Willamette Pass	323	5600	2/24	114.9	39.5	54.6	37.1	2	91.7
Cascade Summit	321	4880	2/28	73.0	26.9	45.6	34.5	8	32.0
Champion	522	4500	2/27	55.0	21.1	50.3	17.9	14	23.8
Salt Creek Falls	**	4000	2/28	43.3	14.6	25.0	14.6	4	25.7
Railroad Overpass	**	2750	2/28	4.5	1.0	8.6	3.0	4	8.8
McCredie Spring	**	2120	2/28	0.0	0.0	1.0	0.7	4	1.6
Oakridge	**	1310	2/28	0.0	0.0	0.0	T	3	T
Meridian Dam	**	750	2/28	0.0	0.0	0.0	0.0	2	0.0
Snow Line: at approximately 2500'									
COAST FORK WILLAMETTE RIVER (Row River)									
Champion	522	4500	2/27	55.0	21.1	50.3	17.9	14	23.8
Golden Curry Creek	**	3136	2/27	10.0	2.7	17.8	2.3	3	11.9
Weaver Creek	**	2440	2/27	2.8	0.7	8.3	1.0	2	4.6
Lund Park	**	1740	2/27	0.0	0.0	4.7	0.5	3	3.1
Layng Creek R.S.	**	1200	2/27	0.0	0.0	0.0	0.0	3	0.0
Snow Line: at approximately 2100'									
MARY'S RIVER									
Mary's Peak	541	3620	2/28	15.4	4.1	--	--	0	--
OREGON COAST DRAINAGE									
UMPQUA RIVER									
Windigo Pass	744	5800	2/24	123.6	42.8	54.3	42.9	2	48.6
Diamond Lake	743	5315	2/25	73.2	27.4	38.4	24.0	24	17.7
Whaleback	7217	5140	2/28	91.1	35.1	54.1	26.8	5	36.9
Champion	522	4500	2/27	55.0	21.1	50.3	17.9	14	23.8
North Umpqua	742	4215	2/25	50.4	18.4	--	--	1	17.5
ROGUE RIVER									
Wagner Butte	7213	6900	2/25	50.6	20.0	27.2	12.2[a]	15	14.8
Seven Lakes No. 1	7211	6800	3/5	124.9	57.8	--	52.9	5	45.1
Big Red Mountain	729	6500	2/26	79.6	33.5	49.2	19.4	4	25.8
Little Red Mountain	7210	6500	2/27	63.4	26.5	32.6	13.0	4	19.8
*Park Headquarters	838	6450	2/27	135.5	62.5	87.4	57.9	9	54.4
Scragg Mountain	7220	6200	Meas. Delayed			53.3	--	10	25.4
Seven Lakes No. 2	7212	6200	3/5	90.8	39.0	--	37.9	5	36.3

*Not located directly in this drainage area.
**Auxiliary snow station; average of 3 to 5 samples taken at same point each survey.
[a]Partly estimated.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

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ROGUE RIVER (Cont'd)									
*Annie Spring	831	6018	2/27	107.8	48.4	71.2	44.4	19	38.5
*Fourmile Lake	7223	6000	2/25	69.7	23.4	--	--	0	--
Grayback Peak	727	6000	3/2	56.5	20.9	49.7	14.0	11	19.6
Billie Creek Divide	722	5300	2/24	64.6	22.2	--	18.5	18	19.6
Whaleback	7217	5140	2/28	91.1	35.1	54.1	26.8	5	36.9
Hobart Lake	7221	5010	2/27	13.3	5.1	9.4	5.4	5	6.5
*Hyatt Prairie Res.	723	4900	2/26	32.6	12.0	16.4	6.4	18	9.8
Fish Lake	725	4865	3/3	38.6	12.9	21.1[b]	8.6	16	10.4
Siskiyou Summit	728	4630	2/28[c]			22.0	3.7	17	6.8
Althouse	7216	4400	3/1	13.6	5.9	21.9	2.1	13	5.0
Silver Burn	7219	3720	3/1	41.3	16.1	24.0	12.8	15	11.4
South Fork Canal	7218	3500	3/1	T	T	9.6	T	16	4.2
KLAMATH LAKE BASIN									
Summer Rim	841	7200	3/3[d]	44.2	19.3[b]	26.8	16.7	13	14.1
Seven Lakes No. 1	7211	6800	3/5	124.9	57.8	--	52.9	5	45.1
Park Headquarters	838	6450	2/27	135.5	62.5	87.4	57.9	9	54.4
Seven Lakes No. 2	7212	6200	3/5	90.8	39.0	--	37.9	5	36.3
Annie Spring	831	6018	2/27	107.8	48.4	71.2	44.4	19	38.5
Fourmile Lake	7223	6000	2/25	69.7	23.4	--	--	0	--
Strawberry	837	5600	2/26	20.4	8.5	18.0	7.7	12	9.2
*Quartz Mt.(COPCO)		5504	3/3	17 0	7.0	10.0[a]	--	21	6.5
Sun Mountain	836	5350	2/24	73.9	28.9	43.1	30.4	15	24.8
*Quartz Mt.	811	5320	3/2	17.2	6.8	14.4	5.3	14	6.2
Billie Creek Divide	722	5300	2/24	64.6	22.2	--	18.5	18	19.6
Crowder Flat	Calif.	5200	2/28	6.5	2.8	--	2.1	11	3.1
Lake of the Woods	835	4960	2/28	37.9	16.9	21.0	10.2	16	9.1
Hyatt Prairie Res.	723	4900	2/26	32.6	12.0	16.4	6.4	18	9.8
Gerber	839	4850	Meas. Delayed			6.4	0.9	3	4.0
Bly 101 Ranch (COPCO)		4800	2/28	0.0	0.0	4.2	0.2	26	1.7
Chemult	834	4760	3/1	41.3	17.4	21.4	14.7	16	11.3
Yamsey (COPCO)		4600	Meas. Delayed			6.2	3.0	24	2.5
Kirk (COPCO)		4533	3/1	13.0	3.8	9.0	5.5	25	6.2
Beatty (COPCO)		4300	2/28	0.0	0.0	0.0	0.5	26	0.2
Crystal (COPCO)		4200	2/28	22.0	9.0	23.0	14.8	23	8.7
Harriman Lodge(COPCO)		4200	2/28	2.0	0.9	8.0	3.3	26	4.1
Chiloquin (COPCO)		4187	3/2	0.0	0.0	7.2	0.0	23	1.7
Fort Klamath (COPCO)		4150	2/28	0.0	0.0	10.0	3.9	26	4.1

*Not located directly in this drainage area.
[a]Water content questionable.
[b]Telegraphic
[c]No survey due to logging operation which has removed all snow from course.
[d]Approximate date.

OREGON SNOW SURVEYS - ABOUT MARCH 1, 1953

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GOOSE LAKE BASIN									
Camas Creek	911A	5720	2/27	30.5	11.4	22.6	12.8	9	10.6
Strawberry	837	5600	2/26	20.4	8.5	18.0	7.7	12	9.2
Quartz Mt. (COPCO)		5504	3/3	17.0	7.0	10.0	--	21	6.5
Quartz Mountain	811	5320	3/2	17.2	6.8	14.4	5.3	14	6.2
INTERIOR DRAINAGE									
WARNER LAKE BASIN									
*Camas Creek	911A	5720	2/27	30.5	11.4	22.6	12.8	9	10.6
GUANO LAKE BASIN									
Bald Mountain	Nev.1	6720	Meas. Delayed			10.3	4.0	12	4.1
CHEWAUCAN RIVER									
*Summer Rim	841	7200	3/3[b]	44.2	19.3[a]	26.8	16.7	13	14.1
Mill Creek	922	6200	3/1	25.6	10.7[a]	17.1	8.2	13	7.4
*Quartz Mountain	811	5320	3/2	17.2	6.8	14.4	5.3	14	6.2
SILVER LAKE BASIN									
Silver Creek	942	4900	2/25	5.8	2.8	9.9	3.9	12	3.6
HARNEY BASIN									
Snow Mountain	965	6300	Not Measured			--	--	5	10.8
Izee Summit	964	5293	2/26	28.7	6.5	13.8	9.0	17	8.4
Idlewild Camp	961A	5200	2/28	21.0	7.4	11.6	5.5	18	6.0
Starr Ridge	247B	5156	2/26	19.1	5.1	10.8	5.3	17	6.0
Lake Creek	136	5120	2/24	37.9	13.1	16.3	10.6	14	10.7
Rock Spring	134	5100	2/27	19.2	6.8	10.0	5.0	17	6.6
Stinking Water	135	4800	Meas. Delayed			8.7	4.0	14	4.7
ALVORD LAKE BASIN									
*Disaster Peak	Nev.6	6500	2/27	35 6	15.0	46.7	16.7	4	20.6
McDERMITT CREEK									
Disaster Peak	Nev.6	6500	2/27	35.6	15.0	46.7	16.7	4	20.6

*Not located directly on this drainage area.
[a]Telegraphic.
[b]Approximate date.

OREGON SNOW SURVEYS - DELAYED DATA

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	SNOW COVER MEASUREMENTS: Date of Survey	Snow Depth (In.)	Water Content (In.) 1953	Same Approx. Date 1952	Same Approx. Date 1951	Past Record: Yrs. of Rcd.	Past Record: Avg. Water Cont. (In.)
FEBRUARY 1, 1953									
GRANDE RONDE RIVER									
Beaver Reservoir	188	5340	2/1	23.0	5.8	8.4	6.6	14	8.6
KLAMATH LAKE BASIN									
Yamsey (COPCO)		4600	2/6	10.0	3.6	7.2	4.4	22	2.5
FEBRUARY 15, 1953									
DESCHUTES RIVER									
Cascade Summit	321	4880	2/15	62.2	23.5	41.7	29.3	3	37.3
Hogg Pass	351	4755	2/14	78.4	34.1	52.5	41.1	3	47.4
WILLAMETTE VALLEY STREAMS									
SANTIAM RIVERS									
Hogg Pass	351	4755	2/14	78.4	34.1	52.5	41.1	3	47.4
Santiam Jct.	552	3990	2/14	43.5	18.7	36.5	23.0	3	33.0
Marion Forks	553	2730	2/14	21.4	8.7	20.0	11.6	3	20.9
Whitewater Bridge	**	2175	2/14	0.0	0.0	11.0	--	2	17.0
Detroit Dam	**	1580	2/14	0.0	0.0	0.0	--	2	4.6
Detroit (new town)	**	1500+	2/14	0.0	0.0	3.0	0.0	3	3.8
Mill City	**	826	2/14	0.0	0.0	0.0	--	1	0.0
Snow Line: Approximately 2150'									
McKENZIE RIVER									
Hogg Pass	351	4755	2/14	78.4	34.1	52.5	41.1	3	47.4
Santiam Junction	552	3990	2/14	43.5	18.7	36.5	23.0	3	33.0
Snow Line: Approximately 2150'									
MIDDLE FORK WILLAMETTE RIVER									
Cascade Summit	321	4880	2/15	62.2	23.5	41.7	29.3	3	37.3
Champion	522	4500	2/16	48.5	19.5	44.2	16.6	4	33.6
Salt Creek Falls	**	4000	2/15	30.1	11.0	23.0	11.2	4	24.8
Railroad Overpass	**	2750	2/15	10.0	1.0	7.4	T	4	9.4
McCredie Springs	**	2120	2/15	T	T	1.0	0.0	4	3.8
Oakridge	**	1310	2/15	0.0	0.0	0.0	0.0	3	0.0
Meridian Dam	**	750	2/15	0.0	0.0	0.0	0.0	3	0.0
Snow Line: Approximately 2000'									

** Auxiliary snow station; average of 3 to 5 samples taken at same point each survey.

OREGON SNOW SURVEYS - DELAYED DATA

DRAINAGE BASIN and SNOW COURSE	Number or State	Elev.	SNOW COVER MEASUREMENTS: Date of Survey	Snow Depth (In.)	Water Content (In.) 1953	Water Content (In.) Same Approx. Date 1952	Water Content (In.) Same Approx. Date 1951	Past Record Yrs. of Rcd.	Past Record Avg. Water Cont. (In.)
FEBRUARY 15, 1953 (CONT'D)									
WILLAMETTE VALLEY STREAMS (Cont'd)									
COAST FORK WILLAMETTE RIVER									
Champion	522	4500	2/16	48.5	19.5	44.2	16.6	4	33.6
Golden Curry	**	3500	2/16	7.3	2.0	13.8	T	3	10.8
Weaver Creek	**	2440	2/16	0.5	T	7.4	6.0	2	3.7
Lund Park	**	1740	2/16	0.0	0.0	5.0	0.0	3	4.2
Layng Creek R.S.	**	1200	2/16	0.0	0.0	--	0.0	3	1.1
Snow Line: Approximately 2400'									
UMPQUA RIVER									
Champion	522	4500	2/16	48.5	19.5	44.2	16.6	4	33.6
ROGUE RIVER									
Fish Lake	725	4865	2/16	34.8	11.7	--	6.0	4	15.1
Siskiyou Summit	728	4630	2/15	18.4	8.2	17.1	--	3	13.8
KLAMATH RIVER									
*Quartz Mt. (COPCO)		5504	2/15	16.0	6.0	--	4.5	20	5.9
Lake of the Woods	835	4960	2/15	37.5	14.2	25.0	--	2	19.2
Bly 101 Ranch (COPCO)		4800	2/15	0.0	0.0	2.8	0.0	25	1.9
Beatty (COPCO)		4300	2/15	0.0	0.0	0.0	0.0	25	0.5
Crystal (COPCO)		4200	2/15	23.5	9.0	17.8	9.8	22	7.9
Harriman Lodge (COPCO)		4200	2/15	7.0	--	10.4	2.6	24	4.1
Chiloquim (COPCO)		4187	2/16	0.0	0.0	7.6	0.0	20	2.2
CORRECTIONS									
HOOD RIVER									
Greenpoint Res.	433	3400	1/29	14.4	5.3	19.4	14.3	5	19.0
KLAMATH LAKE BASIN									
Seven Lakes No.1	7211	6800	2/2	104.2	44.3	--	--	8	21.2
Seven Lakes No.2	7212	6200	2/1	111.3	35.4	48.1	--	9	18.7

OREGON PRECIPITATION[a]

DRAINAGE DIVISIONS	CURRENT YEAR Oct. 1, 1952-Mar. 1, 1953		LAST YEAR Oct. 1, 1951-Mar. 1, 1952	
	P	D	P	D
South eastern	3.93	- 1.09	6.87	+ 1.90
Southcentral	4.84	- 0.53	6.95	+ 1.86
Central	7.45	+ 1.38	7.51	+ 1.32
Columbia River	9.91	+ 0.63	10.35	+ 0.56
Wallowa Mountains	8.41	- 1.08	9.02	- 0.21
Blue Mountains	7.52	- 0.33	8.84	+ 0.55
Southern	19.03	+ 2.41	24.52	+ 7.76
Willamette Valley	35.23	+ 1.92	40.05	+ 5.42

P - Inches Precipitation D - Inches Departure from Normal

Southeastern - Malheur and Owyhee drainges.

Southcentral - Interior Basin drainages and Goose Lake.

Central - Deschutes and Crooked drainages.

Columbia River - Lower valleys of the Walla Walla, Umatilla, John Day, Deschutes and Hood River drainages.

Wallowa Mountains - Imnaha, Wallowa, Catherine, Eagle, and Pine drainages.

Blue Mountains - Upper valleys of the Burnt, Powder, Grande Ronde, Umatilla, Walla Walla, John Day, Silvies, and Malheur drainages.

Southern - Umpqua, Rogue and Klamath drainages.

Willamette Valley - All Willamette drainages.

NOTE: Stations used for determining the averages for the current year are not necessarily the same as those used last year.

[a]Preliminary data computed from Weather Bureau records.

INDEX OF SNOW COURSE LOCATIONS

SNOW COURSE	Number or State	Section	Township	Range	Elevation
Althouse	7216	17	41S	7W	4400
Aneroid Lake #1	183	16	4S	45E	7480
Aneroid Lake #2	183A	16	4S	45E	7000
Annie Spring	831	19	31S	6E	6018
Anthony Lake	155	18	7S	37E	7125
Arbuckle Mountain	241	33	4S	29E	5400
Bald Mountain	Nev.1	17	45N	21E	6720
Barney Creek	143	16	14S	36E	5950
Bear Creek	Nev.1	31	46N	58E	7800
Beatty (COPCO)	Oreg.	22	36S	12E	4300
Beaver Reservoir	188	8	5S	37E	5340
Beech Creek Summit	246A	4	12S	30E	4800
Big Bend	Nev.6	30	45N	56E	6700
Big Bottom	**	25	6S	7E	2118
Big Red Mountain	729	31	40S	1W	6500
Billie Creek Divide	722	30	36S	5E	5300
Black Pine Spring	**	14	16S	9E	4600
Blue Mountain Springs	133	21	15S	35E	5900
Blue Mountain Summit	141	6	12S	36E	5098
Bly 101 Ranch (COPCO)	Oreg.	22	35S	14E	4800
Bourne	154	33	8S	37E	5800
Breitenbush	551	21	9S	7E	2325
Brooks Meadows	431	2	2S	10E	4300
Caldwell Ranch	326	30	21S	8E	4400
Camas Creek	911A	5	39S	21E	5720
Camp Carson	187	33	6S	36E	5970
Cascade Summit	321	7	23S	6E	4880
Champion	522	12	23S	1E	4500
Charlton Lake	327	23	21S	6E	5750
Chemult	834	21	27S	8E	4760
Chiloquin (COPCO)	Oreg.	34	34S	7E	4187
Clackamas Lake	592	35	5S	8½E	3400
Clear Lake	361	29	4S	9E	3500
Coverdale	171	22	5S	47E	4250
Crane Prairie	137	24	16S	34E	5375
Crescent Lake	325	11	24S	6E	4760
Crowder Flat	Calif.	30	47N	11E	5200
Crystal (COPCO)	Oreg.	26	34S	6E	4200
Derr	343	14	13S	23E	5670
Dead Horse Grade	**	13	16S	7E	3800
Detroit Dam	**	7	10S	5E	1580
Detroit (new town)	**	1	10S	5E	1500+
Diamond Lake	743	29	27S	6E	5315
Disaster Peak	Nev.6	8	47N	34E	6500
Dixie Springs	244	28	11S	34E	6650
Dooley Mountain	156	32	11S	40E	5430

(COPCO) - Water content determined by melting a measured sample. (The California Oregon Power Co.'s Station)

** - Auxiliary snow station; average of 3 to 5 samples taken at same point each survey.

INDEX OF SNOW COURSE LOCATIONS (Cont'd)

SNOW COURSE	Number or State	Section	Township	Range	Elevation
Eilertson Meadows	151B	18	8S	38E	5400
Emigrant Springs	222	29	1N	35E	3925
Fish Creek	952	4	33S	33E	7900
Fish Lake	725	3	37S	4E	4865
Fort Klamath (COPCO)	Oreg.	22	33S	7½E	4150
Fourmile Lake	7223	9	36S	5E	6000
Fox Creek	Nev.2	33	46N	58E	6800
Fry Canyon	Nev.7	31	43N	54E	6700
Gerber	839	12	39S	13E	4850
Gold Center	249	21	9S	36E	5340
Gold Creek	Nev.5	31	45N	56E	6600
Golden Curry Creek	***	1	23S	1E	3136
Goodrich Lake	157	34&35	8S	38E	6775
Granite Peak	Nev.4	22	44N	39E	7800
Grayback Peak	727	9	40S	5W	6000
Greenpoint Reservoir	433	28	2N	9E	3400
Harriman Lodge (COPCO)	Oreg.	3	36S	6E	4200
Hobart Lake	7221	17	40S	3E	5010
Hogg Pass	351	24	13S	7½E	4755
Hungry Flat	***	30	18S	11E	4400
Hyatt Prairie Reservoir	723	15	39S	3E	4900
Idlewild Camp	961A	33	20S	31E	5200
Irish-Taylor	329	25	20S	6E	5500
Izee Summit	964	28	16S	29E	5293
Kirk (COPCO)	Oreg.	1	33S	7E	4533
Lake Creek	136	10	16S	33½E	5120
Lake Harriet	***	4	6S	7E	2045
Lake of the Woods	835	11	37S	5E	4960
Layng Creek R.S.	***	31	21S	1E	1200
Little Red Mountain	7210	25	40S	2W	6500
Lost Creek Ranch	***	24	16S	6E	1956
Lower Buckskin	Nev.1	25	45N	39E	6700
Lower Jack Creek	Nev.9	18	42N	53E	6800
Lucky Strike	223	28	3S	32E	5050
Lund Park	***	22	22S	1E	1740
Marion Forks	553	28	11S	7E	2730
Marks Creek	344	25	12S	19E	4540
Martin Creek	Nev.3	18	44N	40E	6700
Mary's Peak	541	21	12S	7W	3620
McCredie Spring	***	36	21S	4E	2120
McKenzie	531	35	15S	7½E	4800
McKenzie Bridge	***	13	16S	5E	1372
Meacham	221	24&25	1S	35E	4300
Meridian Dam	***	13	19S	1W	750
Midas	Nev.6	18	39N	46E	7200
Mill Creek	922	1	34S	17E	6200
Mill City	***	29	9S	3E	826
Moss Spring	186A	28	3S	41E	5850
New Crescent Lake	325A	11	24S	6E	4800
New Dutchman Flat	324A	21	18S	9E	6400
North Umpqua	742	19	26S	6E	4215
Oakridge	***	16	21S	3E	1310
Ochoco Meadows	341	21	13S	20E	5200
Olive Lake	245	14	9S	33½E	6000
Park Headquarters	838	8	31S	6E	6450

INDEX OF SNOW COURSE LOCATIONS (Cont'd)

SNOW COURSE	Number or State	Section	Township	Range	Elevation
Peavine Ridge	59 I	14&15	6S	7E	3500
Phlox Point-Mt. Hood	452	6	3S	9E	5600
Quartz Mountain	811	2	38S	16E	5320
Quartz Mountain (COPCO)	Oreg.	33	37S	16E	5504
Railroad Overpass	***	27	22S	5E	2750
Red Hill	434	21	1S	9E	4400
Rock Spring	134	23	18S	32E	5100
Rodeo Flat	Nev.8	36	43N	53E	6800
Salt Creek Falls	***	33	22S	6E	4000
Santiam Junction	552	14	13S	7E	3990
Schneider Meadows	161	35	6S	45E	5400
Schoolmarm	248	28	4S	34E	4775
Scragg Mountain	7220	9	47N	10W	6200
Seven Lakes #1	7211	3	34S	5E	6800
Seven Lakes #2	7212	26	33S	5E	6200
Silver Burn	7219	30	30S	4E	3720
Silver City	Ida.12	6	5S	3W	6400
Silver Creek	942	25&26	29S	13E	4900
Silvies	951	35	32S	33E	6900
Siskiyou Summit	728	17	40S	2E	4630
Snow Mountain	965	1	19S	26E	6300
South Fork Canal	7218	12	33S	3E	3500
South Mountain #2	Ida.13	35	7S	5W	6340
Starr Ridge	247B	20	15S	31E	5156
Still Creek	451	25	3S	8½E	3700
Stinking Water	135	33	21S	34E	4800
Strawberry	837	4	40S	16E	5600
Summer Rim	841	15	33S	16E	7200
Summit Springs	184	9	6S	37E	6000
Sun Mountain	836	22	32S	7½E	5350
Tamarack	342	8	15S	25E	4800
Tangent	***	28	18S	10E	5400
Taylor Butte	842	16	33S	11E	5100
Taylor Canyon	Nev.12	35	39N	53E	6200
Taylor Green	185	3	6S	42E	5740
Three Creeks Meadows	331	3	17S	9E	5600
Tilly Jane-Mt. Hood	432	15	2S	9E	6000
Tipton	142	34	10S	35½E	5100
Tollgate	212	32	4N	38E	5070
Trap Creek	741	1	27S	4E	3800
Tremewan Ranch	Nev.11	9	39N	55E	5700
Upper Buckskin	Nev.2	11	45N	39E	7200
Upper Jack Creek	Nev.10	9	42N	53E	7250
Vidae	***	28	16S	2E	800
Wagner Butte	7213	1	40S	1W	6900
Waldo Lake	521A	15	21S	6E	5500
Weaver Creek	***	35	22S	1E	2440
Whaleback	7217	3	31S	2E	5140
White Branch Slide	***	15	16S	7E	2800
Whitewater Bridge	***	28	10S	7E	2175
Willamette Pass	323	21	24S	5½E	5600
Windigo	744	20	25S	6E	5800
Yamsey (COPCO)	Oreg.	20	31S	11E	4600
76 Creek	Nev.4	6	44N	58E	7100

The following organizations cooperate in the Oregon snow survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
  Forest Service
  Soil Conservation Service
Department of Commerce
  Weather Bureau
Department of the Interior
  Bonneville Power Administration
  Bureau of Reclamation
  Fish and Wildlife Service
  Geological Survey
  Indian Service
  National Park Service
Department of National Defense
  Army Engineer Corps

PUBLIC UTILITIES

California-Pacific Utilities Company
Portland General Electric Company
The California Oregon Power Company

MUNICIPALITIES

City of Baker
City of La Grande
City of The Dalles

IRRIGATION DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
East Fork Irrigation District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users, Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE ORGANIZATIONS

Amalgamated Sugar Company
South Wasco Soil Conservation District
The Crag Rats, Hood River, Oregon

Federal - State - Private

COOPERATIVE SNOW SURVEYS

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Furnishes the basic data necessary for forecasting water supply for irrigation, domestic and municipal water supply, hydro-electric power generation, navigation, mining and industry

"WATER IS THE WEST'S GREATEST RESOURCE"